

PENTAIR Intellichem Controller Firmware Upgrade Kit Installation Guide

Home » Pentair » PENTAIR Intellichem Controller Firmware Upgrade Kit Installation Guide





INTELLICHEM® CONTROLLER FIRMWARE UPGRADE KIT INSTALLATION GUIDE



IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS

Kit contents

The following items are included in the Kit P/N 521498

• Programmer IntelliChem® Controller - P/N 521469

• Installation Guide (this manual)

System requirements

• Windows® 10, 8 or 7

Technical Support (US)

8 AM to 7.30 PM (US Eastern and Pacific Time)

Phone: (800) 831-7133

Related manuals

IntelliChem Controller Installation and User's Guide (P/N 521363)

Contents

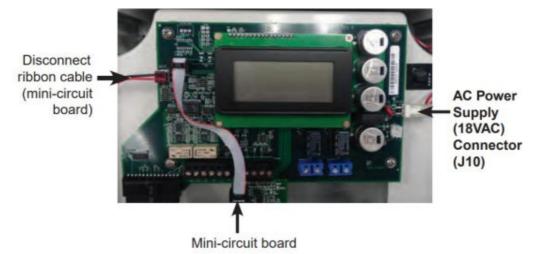
- 1 IntelliChem® Controller Firmware Update Instructions
- **2 Connect Programmer Cables**
- 3 Troubleshooting
- 4 Documents / Resources
 - 4.1 References
- **5 Related Posts**

IntelliChem® Controller Firmware Update Instructions

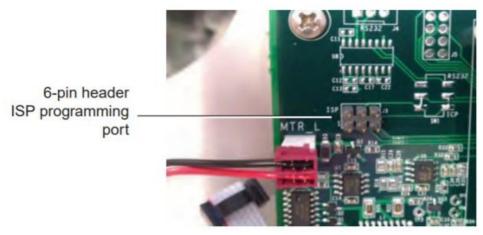
The IntelliChem Controller firmware updates are performed using the update programmer connected to a USB port on a computer running Microsoft ® Windows version 10, 8, or 7.

Connect Programmer Cables

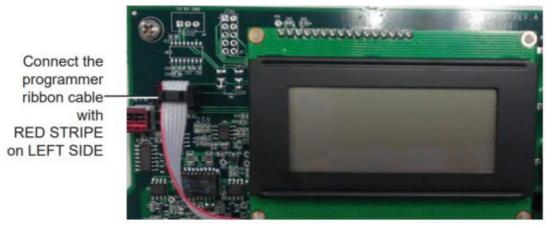
- 1. Disconnect power to the IntelliChem Controller. Open the front cover and disconnect the 18 VAC supply connector J10 on the right side of the IntelliChem Controller circuit board (as shown below).
- 2. Note: If there is a mini-circuit board connected to the IntelliChem Controller circuit board, disconnect the ribbon cable from the IntelliChem Controller circuit board.



3. Locate the 6-pin header labeled ISP in the upper-left corner of the theIntelliChem Controller circuit board (as shown below).



4. Connect the 6-pin ribbon cable connector to the ISP (on the System Programming) port with the RED stripe toward the left side as shown below.



- 5. Reconnect the power connector (J10) to the IntelliChem® Controller circuit board (see page 1).
- 6. DO NOT connect the micro USB cable to the computer.

Installing IntelliChem Controller Firmware Upgrade Setup Wizard

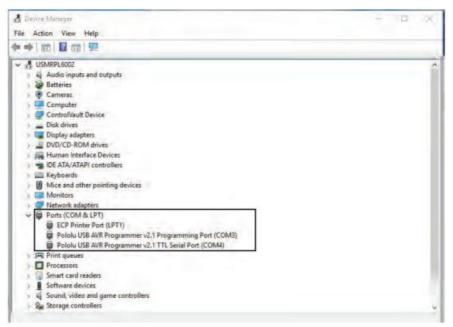
- 1. Download the Pentair software from: https://www.pentaircom/en/products/pookspa-equipment/pool-automation/intellichem waterchemistrycontroller.html
- 2. Navigate to HOMEOWNER AND PRO RESOURCES -> SOFTWARE
- 3. Download and unzip file: IntelliChem Firmware Upgrade v1-080.zip
- 4. If it exists on your computer, Delete the directory CAPentairIIntelliCheml.
- 5. From folder ICHEM 1060, Unzip file: IntelliChem Firmware Upgrade v1- 060.zip
- 6. Install the firmware upgrade setup wizard by double-clicking on the file you just unzipped IntelliChem Firmware Upgrade v1-060.exe.

Follow the screen message to complete the installation.

Note: For Windows 10, the INF configuration file is not compatible with this method of installation. Ignore all error messages. Select "OK" or "CLOSE" to continue and complete the installation. The Avrdude Programming utility and Pololu driver will be installed.

- 7. Follow the screen message to complete the installation.
- 8. Upon completion of software installation, copy the following two files to folder C:IpentairIIntelliChernIICHEM_Script_1080.bat and ICHEM_v1.080.a90
- 9. Next, generate a NEW iChem icon pointing to IntelliChem version v1.080. Right-click on the file **bat**, select **Send to**, then select **Desktop** (**create shortcut**).
 - **Programming IntelliChem Controller Firmware**

- 10. Apply power to the IntelliChem Controller unit and connect the Pololu ribbon cable to the IntelliChem Controller ISP programming port ISP J3.
- 11. Connect a micro USB cable from the Pololu programmer board to the computer USB port.
- 12. To verify if the Polulu device driver is installed correctly, Windows Device Manager should display as shown below.



13. **For Windows 7, 8 users:** Double-click on the desktop icon "IChem_ Script_1080" to begin programming IntelliChem® Controller firmware version 1.080. Wait for programming to complete.

- 14. For Windows 10 users:
 - Double-click on the desktop icon IChem Script 1080
 - Enter the Pololu USB Programming COM port number ONLY from the Device Manager (i.e... 3)

Troubleshooting

If the programmer exits without showing a progress bar, there was an error in the setup or installation. Check the following:

- a) The programmer is installed correctly
- b) IntelliChem® Controller unit is powered on
- c) Driver is properly installed

No communication with Pololu Programmer, check the USB connection.

No communication with IntelliChem Controller, check the connection to ISP on the IntelliChem Controller board.



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Documents / Resources



<u>PENTAIR Intellichem Controller Firmware Upgrade Kit</u> [pdf] Installation Guide Intellichem Controller Firmware Upgrade Kit

References

• Pentair

Manuals+,